KOSTKUBA, J.

Mechanical scale removal during rolling. p. 226. (HUTNIK, Vol. 7, No. 7, July 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, No. 12, Dec 1957. Uncl.

L 3750-66

AP5027818 ACCESSION NR:

CZ/0057/65/000/001/0031/0034

AUTHOR: Kostkuba, Josef

TITIE: Steel scorching by hand burners

SOURCE: Hutnik, no. 1, 1965, 31 - 34

TOPIC TAGS: steel, metal heat treatment, metallurgic furnace, metallurgic

machining

Hand burners currently used in Czechoslovakia are described. The depth of the cut and its connection to the rate of ABSTRACT: scorching are discussed. Methods of preheating are reviewed; the technique of operating the burners is described, and best methods for removing the imperfections from ingots are discussed. The rates of operation and consumption of heating gases are reviewed. Mechanized lines for hand scorching of ingots are described. Orig. art has: 1 table.

ASSOCIATION: Hutni projekt, Prague (Metallurgical Projects)

SUBMITTED: 00 NO REF SOV: 000 Card 1/1 ENCL: 00 OTHER: 000 SUB CODE: IE, MH

JPRS

KOSTKUBA, Jozef, ins.; BORTNOWSKI, R., mgr ins. [translator]

Contemporary methods of mechanical removal of scale from the surface of rolled products. Wiad hut 16 no.7/8:218-225 Jl-Ag. 160.

1. Hutni Projekt, Praga, CSR.

L = 3969 - 65 SIP(k)/SIP(h)/SIP(1)/SIA(d)/SIP(v)

ACCESSION NR: AP5020713

CZ/0057/64/000/012/0592/0597

AUTHOR: Kostkuba, Josef

MILE: Cleaning of the intermediate product surfaces for pipe manufacture by mechanical flame application

SOURCE: Hutnik, no. 12, 1964, 592-597

TOPIC TAGS: pipe, metal finishing, metalworking machinery

ABSTRACT: Flame application under hot and cold conditions is described; practical experience with the process and improved production yields are evaluated. The surface cleaning achieved by flame application is compared to old-fashioned surface cleaning achieved by flame application is compared to old-fashioned surface cleaning achieved by the union of the installation in a plant is evaluated. The machines CM 27 and 47 made by the Union Carbide Corp. and operational conscience with them in Czechoslovakia is described. Influence of temperature thanks and of oxygen purity are evaluated. Possible improvement of the machine in its cussed. Orig. art. has 5 figures and 5 graphs.

ACCOUNTION: Hutni projekt, Prague (Metallurgical Projects)

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KOSTLAN, Jarmil, MUDr.; SOYKA, Oto, MUDr.; PRASIL, Karel, MUDr.

Effect of TS 160 in the treatment of chronic gingivitis and periodontosis. Cas. lek. cesk. 91 no.22:649-651 30 May 52.

1. Z I. stomatologicke kliniky prof. dr. K. Mest'ana, z III. interni kliniky prof. dr. J. Charvata a z II. pathologicko-anatomickeho ustavu prof. dr. V. Jedlicky v Praze.

(NITROGEN MUSTARDS, therapeutic use, gingivitis & periodontosis)
(PERIODONTIUM, diseases, ther., nitrogen mustards)
(GINGIVITIS, therapy, nitrogen mustards)

KOSTLAN, Jarmil, Doc. Dr.

Structure of the dental calculus. Cesk. stomat. No.5:185-190 Sept 54.

1. Z vyskumneho ustavu stomatologickeho v Prase (TMETH, calculi structure)

```
Alkaline phosphatase and dental calculi. Gesk.stomat. no.3:72-75

May 55.

1. 2 Vyskumneho ustavu stomatologickeho v Praze
(PHOSPHATASES
alkaline, in etiol. of dental calculi)
(TRETH
tartar form., role of alkaline phosphatases)
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SKACH, Miroslav. MUDr. KOSTLAN, Jarmil Doc.Dr.; BOUCE, Zdenek MUDr

Studies on neurotrophic effects from the oral cavity. Cesk.
stomat. no.4-5:136-154 J1 '55.

1. Z II. Stomatologicke kliniky IU a s Vyskumneho ustavu
stomatologickeho v Prase.

(MENVES, TRIGEMINAL, physiology.
eff. of irritation, dent.aspects)

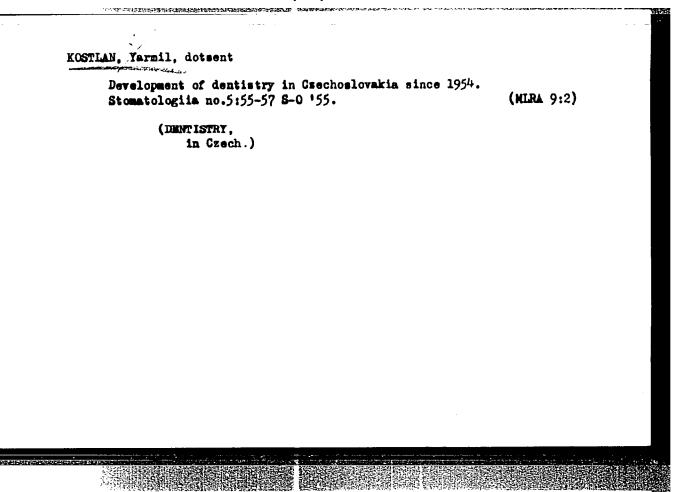
KOSTLAN, Jarmil, Doc.Dr

Partial burning of the ground section of the tooth as a method in histological examination of the tooth in normal conditions and in dental caries. Gesk.stomat. no.4-5:201-204 Jl '55.

1. Z Vyzkumneho ustavu stomatologickeho v Praze.

(TESTH, anatomy and histology,
prep. of specimens in normal cond. & in dent.
caries by partial burning)

(DENTAL CARIES, pathology,
histol. exam. of tooth specimens prep. by
partial burning)



Dental care, Cas. lek. cesk. 97 no.23-24:746-747 6 June 58.

1. Vyzkumny ustav stomatologicky, reditel doc. dr. J. Kostlan.

(DENTISTAY,

in Gzech. (Gz))

ijada j

SURNAME, Given Names

Sources

Country: Czechoslovakia

Academic Degrees: not given

Stoma tology Research Institute, Director-Docent J.Kostlan, MD. (Vyzkumny ustav stomatologicky, reditel doc.

Affiliation: dr. J. Kostlan) Prague.

Prague, <u>Ceskoslovenska Stomatologie</u>, Vol 61, No 5, Sep 1961; pp 342-346.

Experimental Dental Caries in Vitro. IV. Comparison between the Histological Picture of the Artificial Lesion and the Caries of the Enamel. Datas

KOSTLAN, J. MD. BURES, H.,

6PO 981643

PLACKOVA, A.; KOSTLAN, J.; STEPANEK, J.

Submicroscopic structure of disturbances in calcification and of incipient caries. Electron microscopic study. Cesk. stomat. 65 no.2381-84 Mr '64

1. Vyzkumny ustav stomatologicky v Praze (reditel - prof. dr. J.Kostlan); Laborator pro elektronovou mikroskopii a experimentalni morfologii Ceskoslovenskej akademie ved v Praze (vedouci akademik J. Wolf).

KOSTLAN, J.

On the incidence of periodontopathy. Cesk. stomat. 65 no.2:

1. Vyzkumny ustav stomatologicky v Praze (reditel: prof.

J. Kostlan).

141-149 Mr 165

PALAMAR'-MORDVINTSEVA, G.M. [Palamar-Mordvintseva, H.M.]; KOSTLAN, N.V.

Effect of various sources of nitrogen on the development and protein formation in Ankistrodesmus braunii Brunnth. Ukr. bot. zhur. 22 no.4:91-96 '65. (MIRA 18:10)

1. Institut botaniki AN UkrSSR, otdel nizkikh rasteniy.

PARSHIKOV, V.N. [Parahykov, V.M.]; KOSTLAN, N.V.

Problems of biochemistry at the conference on the theoretical basis of the regulation of mineral nutrition. Ukr. bot. shur. 22 no.4:115-116 '65. (MIRA 18:10)

KOSTLAN, N. V.

"Nitrogen metabolism of Protoccocales algae with various ratios of nitrogen and phosphorus in the medium."

report submitted for 10th Intl Botanical Cong, Edinburgh, 3-12 Aug 64. AS UkSSR.

KISTLAN, N. V.

KOSTIAN, N. V. — "The Effect of Growing Conditions on the Anatomic-Morphological and Biochemical Features of Foxtail Millet." Acad Sci Ukrainian SiR. Inst of Botany. Kiev, 1955. (Dissertation for the Degree of Candidate in Biological Sciences)

SO: Knizhnaya Letopis', No 1, 1956, pp 102-122, 124

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9"

USSR/Cultivated Plants - General Problems.

M

: Ref Zhur Biol., No 18, 1958, 82243 Abs Jour

: Fedorova, N.A., Gurileva, M.A., Kostlan, N.V. Author

Inst

: Methods of Determining the Viability of Winter CRops Tit_e

: Byul. pofiziol. rastemiy, 1957, No 1, 29-33 Orig Pub

: Direct growth is considered the primary method. How-Abstract

ever; the water method (M. Bugayevskiy), the sugar growth method (Kuperman and Kucheryavaya) and others belong to those techniques which speed p the process and are less laborious and still have not been widely utilized. At the Chair of Darwinism in Mowcow University one has worked out a determination method on the basis of the condition of the apical cones (thier turgescence, degree of browning and turbidity). Upon checking 316 specimens of those plants which proved to lack viability in the instance of direct growth, no

Card 1/2

USSR/Cultivated Plants - General Problems

M

: Ref Zhur Biol., No 18, 1958, 82243 Abs Jour

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012

loss of turgor or occ rrence of brown vegetative cones were observed. The Institute of Plant Physiology suggested that one use staining for the comes and shoot base sections, with a 0.1% sol. of acidic f chaine. Mon-viable cells are distinguished by their ability to be stained; in cases where only the shoot base cells stained, the plants belonged to the weakened group. Work has been started on applying the luminescent analysis method (by means of an Li-L apparatus) and radio isotopes (on the basis of the speed and rate of P32 uptake b

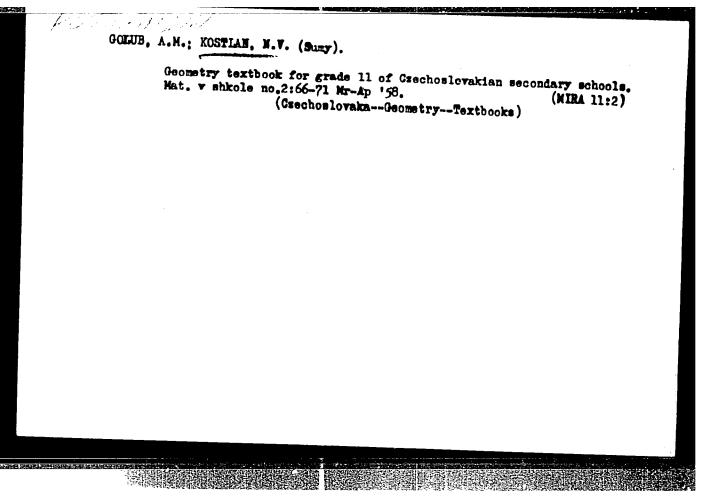
by the plants).

The Bibliography lists 8 titles. -- B.Te. Kravtsova

GOLUB, A.M. (Sumy); IOSTLAB, M.V. (Sumy).

Algebra textbook for the grade 11 of Csechoslovakian secondary schools. Mat.v shkole no.6:77-79 M-D '57. (MIRA 10:11)

(Gsechoslovakia--Algebra--Textbooks)



GOLUB, A.M.; KOSTIAN, N.V.

Trigonemetry textbeek for grades 10 and 11 of Czecheslevakian secondary schools. Mat. v shkele ne.6:83-87 N-D '58.

(Czecheslevakia--Trigenemetry--Textbeeks)

(Czecheslevakia--Trigenemetry--Textbeeks)

FEDOROVA, N.A., kand.sel'skokhoz.nauk; KOSTLAN, N.V., kand.biolog.nauk

Frost resistance and carbohydrate metabolism in winter rye and winter wheat. Nauch.trudy UASHN 9:110-120 (MIRA 14:3)

(Rye) (Wheat) (Plants—Frost resistance)

PALAMAR -MORDVINTSEVA, G.M.; [Palamar - Mordvyntseva, H.M.]; KOSTLAN, N.V.

Phenomena accompanying a chlorella culture when grown on urea. Ukr. bot. zhur. 21 no.3:36-42'64 (MIRA 17:7)

1. Institut botaniki AN Ukr SSR, otdel nizshikh rasteniy.

KOSTLIVY, V.

Vivid interest of North Bohemian lignite basin workers in automatic computers. Uhli 6 no.52176 My *64

KOSTNAPFEL, J.; BORSTNAR, M.

3 management of the state of t

Our views on electronarcosis. Neuropsihijatrija 8 no.4:285-289 60.

1. Bolnisnica za dusevne in zivene bolezni Ljubljana - Polje in Psihlatriena klinika FMS v Ljubljani (Predstojnik: Prof: dr. Janez Kanoni).

(ELECTRONARCOSIS)

KOSTNAPFEL, Janko

SURNAME (in cups); Given Names

Country:

Yugoslavia

Academic Degrees: / not given

Affiliation: not given i

Source: Ljubljana, Zdravstveni vestnik, No 3-4, 1961, pp 86-89.

Dira:

"Psychiatric Problems in Geriatrics."

KOSTNAPFEL, JANKO

APPROVED FOR RELEASE; 06/14/2000

CIA-RDP86-00513R060825220012-

Surviews (in capa); Given Names

Countary:

Yugoslavia

Academic Degrees: [not given]

Affiliation:

Psychiatric Clinic of the Medical Faculty (Psihiatricna Klinika Medicinske Fakultote), Ljubljana; Director (Predstojnik)

Prof Dr Janez Kanoni

Source:

Ljubljana, Zdravstveni Vestnik, Vol XXX, No 1-2, 1961, pp 22-23

28

"Electric Sleep."

Data: .

Authors:

KOSTHAPFEL, Janko BORSTNAR, Marijan

KOSTNAPFEL, Janko

Mental hygiene services in tuberculosis hospitals. Tuberkuloza 16 no.5:454-456 S-D *64

1. Bolnisnica za duzevne bolezni, Polje (Predstojnik: prof. dr. J. Kanoni).

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9"

VARTANYAN, S.A.; TOSUNYAN, A.O.; KOSTOCHKA, L.M.

Chemistry of vinylacetylens. Part 59: Addition of chloromethyl ether to Δ^{l} —cyclohexensylacetylens and some transformations of chlorides obtained. Izv. AN Arm. SSR. Khim. nauki 18 no.3:274-277 '65. (MIRA 18:11)

1. Institut organicheskoy khimii AN ArmSSR. Submitted May 14, 1964.

KOSTOCHKIN, O.I.

5/089/61/011/006/008/014 B102/B138

2 LI 00 0

Shpakov, V. I., Petrzhak, K. A., Bak, M. A., Kovalenko, S. S.,

Kostochkin, O. I.

TITLE: Delayed-neutron yields in Pu239 and Th252 fissions induced by 14-5-Mev neutrons

PERIODICAL: Atomnaya energiya, v. 11, no. 6, 1961, 539 - 540

TEXT: From theoretical considerations and analyses of experimental data a slight decrease in delayed-neutron yields is expected with increasing excitation energy. So far it has only been measured for 14.5 MeV thermal fission neutrons from U²³⁵. The authors measured the delayed-neutron yield of 14.5-MeV neutron-induced Pu²³⁹ fission and, for comparison, that of Th ²³² fission. It was determined as the ratio between number of fission events and the number of delayed neutrons produced per second in the sample of fissile matter. The Pu or Th sample was cadmium coated in the sample of fissile matter. The Pu or Th sample was cadmium coated and bombarded with 14.5-MeV neutrons from T(d,n)He⁴ reactions, with a target just behind it being irradiated simultaneously. The steel backing of the target was one electrode of the ionization chamber. To measure (Gard 1/3)

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Delayed-neutron yields in...

the number of delayed neutrons emitted, about 0.2 sec; after irradiation had censed the sample was dipped into a neutron detector 1.5 m from the neutron source. The detector consisted of 17 boron counters of the neutron source. The detector consisted of 17 boron counters of the CHM-5A (SNM-5A) type contained in a paraffin block. The end of neutron bombardment which coincided with removal of the sample was established dinematographically with an accuracy of 0.02 sec. As neutron counting started 0.2 sec after the end of bombardment, this caused a loss in neutrons with a delay of 0.16 sec. Special measurements were made to determine this error, which was not above the experimental level. The total number of delayed neutrons could thus be determined by extratotal number of delayed neutrons could thus be determined by extrapolating the neutron number - versus - time curve to the instant when
bombardment ceased. The following results were found: total delayedneutron yield per decay event: 0.0130 ± 0.0015 for Pu²³⁹, and 0.075
neutron yield per decay event: 0.0130 ± 0.0015 for Pu²³⁹, and 0.075
the Pu²³⁹, yield is twice as high as when fission is
induced by thermal or fission neutrons. This result is explained by
assuming that neutron emission probability increases with increasing exassuming that neutron emission probability increases with increasing excitation energy. There are 1 figure and 4 references: 3 Soviet and 1 non-Soviet. The two references to English-language publications read as follows: C. Keepin et al., Phys. Rev. 107, 1044 (1957); J. Nucl. Energy, 6, (1957); K. Sun et al., Phys. Rev. 79, 3, 1950. Card 2/3

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B117/B104

Graudynya, L., Kostochkin, Q., Petrzhak, K., Sorokina, A.

TITLE:

γ-rays im inelastic scattering of 2.95-Mev neutrons from

A1²⁷

PERIODICAL:

Akademiya nauk Latviyskoy SSR. Izvestiya, no. 1 (174),

1962, 51-52

TEXT: The authors studied 7-transitions of Al27 with the aid of the spectra of the y-rays forming in inelestic scattering of 2.95-Mev neutrons. The studies were made with a scintillation spectrometer, the experimental conditions were the same as in Ref. 1 (V. M. Adamov, L. Ya. Graudynya, K. A. Petrzhak, A. V. Sorokina, Izv. AN Latv. SSR, no. 5, 1961). The weight of the circular Al-scatterer was 333 g. The neutrons scattered by the Al-scatterer into the crystal interact with the NaI(T1) crystal and bring about a γ -background. The background γ -ray spectrum was measured with an organic-glass scatterer. The number of scattering atoms was the same in aluminum and organic glass. Besides the already known y-lines with 0.84, 1.02, and 2.25 Mev an additional line with 2.82 Mev was Card 1/2

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825220012-

s/197/62/000/001/001/002 B117/B104

γ-rays in inelastic scattering ...

detected. Two more lines with the energies of 1.23 and 1.76 Mev were coserved which are assigned to Al27 by some scientists and which are associated with the 2.75-Mev level which has hitherto not been observed in the inelastic scattering of neutrons from aluminum. These two lines are assumed to have formed as a result of the pair production caused by 2.25-Mev y-quanta in the NaI(T1) crystal and by the subsequent emergence of one (1.76 Mev) or two (1.23 Mev) annihilation quanta from the crystal. This assumption is confirmed by the dependence of the intensity ratio of the 1.25-, 1.76-, and 1.23-Mev lines on the crystal dimensions. A check experiment with an aluminum scatterer placed at an angle of 90° to the deuteron beam showed that the two lines (1.23 and 1.76 Mev) were present although the neutron energy was not sufficient to excite levels higher than 2-25 Mev in Al²⁷. Hence the Al²⁷ spectrum has the following y-transitions: 0.83, 1.02, 2.25, and 2.82 Mev. There are 1 figure and 10 references: 3 Soviet and 7 non-Soviet.

SUBMITTED:

July 14, 1961

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Graudynya, L. Ya., Kostochkin, O. I., Petrzhak, K. A., Sorokina. A. V. AUTHORS:

Sorokina, A. V.

TITLE:

Gamma rays produced in inelastic scattering of 2.95-Mev

neutrons on Tal81 nuclei

PERIODICAL:

Sand 1/2

Zhurnal eksperimental noy i teoreticheskoy fiziki, v. 42,

no. 2, 1962, 349 - 352

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TEXT: With the experimental arrangement shown in Fig. 1 the excitation spectrum was measured with a scintillation gamma spectrometer in annular geometry. Its resolution for the 0.66-Mev gamma lines of Ca137 was 10%. The soft spectrum up to 1 Mev was measured using a 286 g metallic Ta ring es scatterer; for the hard spectrum an annular container of organic glass used, filled with 818 g Ta powder. The measurements were made in the the collowing gamma peaks were observed: 0.35, 0.42, 1.13, 0.57, 0.62, 0.76, 0.86, 1.24, 1.47, 1.90 and 2.11 Mev. The peaks at 1.70 and 1.60 Mev are attributed to pair production in the NaI(Tl) crystal by 1.00 and 2.11-Mev gamma quanta. There was no 0.958-Mev level, but all

s/056/62/042/002/006/055

Gamma rays produced in inelastic ...

the gamma transitions observed can be obtained without introducing this level. There are 2 figures, 1 table, and 8 references: 2 Soviet and 6 non-Soviet. The four most recent references to English-language publications read as follows: A. H. Muir, F. Boehm. Phys. Rev. 122, 1564, 1961; F. Boehm, P. Marmier. Phys. Rev., 103, 342, 1956; R. Day. Phys. Rev. 102, 767, 1956; B. Guernsay, A. Wattenberg. Phys. Rev. 101, 1516, 1956.

ASSOCIATION: Radiyevyy institut Akademii nauk SSSR (Radium Institute of the Academy of Sciences USSR)

July 17, 1961 SUBMITTED:

Legend to Fig. 1: (1) Deuteron beam;

(2) deuterium target, (3) lead

shielding cone, (4) annular Ta scatterer,

(5) NaI(T1) crystal, (6) photomultiplier,

(7) screen of black paper.

Card 2/2

CIA-RDP86-00513R000825220012-9" APPROVED FOR RELEASE: 06/14/2000

KOSTOCHKIN, O.I.; PETRZHAK, K.A.; SOKOLOV, A.M.; SHPAKOV, V.I.

A 4-5 counter for measuring the radioactivity of gaseous products. Prib. i tekh. eksp. 9 no.3:52-55 My-Je 164 (MIRA 18:1)

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9"

大学の主義は我国の代表を表現の方式を表現のようを言う ままし ARON, P.M.; KOSTOCHKIN, O.I.; PETRZHAK, K.A.; SHPAKOV, V.I. Probability of delayed neutron emission from halogens. Atom. energ. 16 no. 4:368-370 Ap 164. (MIRA 17:5)

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9

SHPAKOV, V.I.; KOSTOCHKIN, O.I.; PETRZHAK, K.A.; ARON, P.M.

Yields of 87Br, 88Br, 89Br, 137I, 138I precursors of delayed neutrons in the fission of 238U and 232Th with an energy of 14.5 Mev. Radiokhimiia 7 no.1:96-103 65. (MIRA 18:6)

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	"Thorsesing the Efficiency of Ventilators,"	V. N.	
	Kostochkin, 2 pp "Promyshlennaya Energetika" Vol IV, No 6		
ſ	The author was able to alter the cowling of	18 ROOM	
	cient. The usual efficiency of ventuation of the author claims that in his experiments to increase it to as high as 0.73 with the power saving of 93,000 kilowatt hours.	en eleca	
		23152	

KOSTOCHKIN, V.N.

DOC TECH SCI

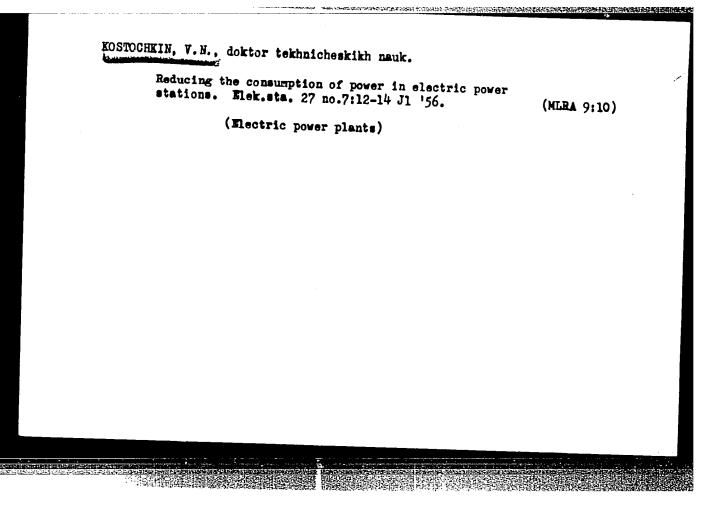
Dissertation: MInvestigation of the Performance of Jackets in Pumps and Ventilators. Moscow Inst of Chemical Machine Building.

> so Vecheryaya Moskva Sum 71

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9

ROSTO-HALM, Vladimir Nikolaevich Air blowing equipment in central electric power plants; ventilators Moskva, Gos. energ. izd-vo, 1950.

302 p. (50-38811) TJ960.K6



STARK, Sergey Borisovich; KANTOROVICH, B.V., prof., doktor tekhn. nauk, retsenzent; KOSTOCHKIN, V.N., prof., doktor tekhn. nauk, retsenzent; zent; IELYAVIN, N.Ya., dotsent, kand. tekhn. nauk, retsenzent; ARUSTAMOVA, TS.T., dots., kand. tekhn. nauk, retsenzent; KISELEV, V.I., dots., kand. tekhn. nauk, retsenzent; SUSHKIN, I.N., inzh., retsenzent; BRINZA, V.N., red.; ISLENT'YEVA, P.G., tekhn. red.

[Fundamentals of hydraulics, pumps and air-blowing machines; collection of problems] Osnovy gidravliki, nasosy i vozdukheduvnye mashiny; sbornik zadach. Izd.2., perer. i dop. Moskva, Gos. nauchno-tekhn. izd-vo lit-ry po chernoi i tsvetnoi metallurgii, 1961. 456 p. (MIRA 14:9) (Hydraulics) (Pumping machinery) (Blowers)

KCSTOCHKIH, V. V.

Gidravlika sistem vodianogo okhlazhdeniia aviatsionnykh motorov. Moskva, 1939. 64 p., illus., diagrs. (TSAGI. Trudy, no.434)

Bibliography: p.62.

Title tr.: Hydraulics in the water cooling systems of aircraft engines.

QA911.M65 no.434

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9

KOSTOCHKIN, V. V.

Materialy k raschetu i proektirovamiu sistem vodianogo okhlazhdeniia aviatsionnykh motorov. Moskva, 1940. 55p., illus. (TSAGI. Trudy, no. 514)

Title tr.: Data for the design of cooling systems of water-cooled aircraft engines.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

KOSTCCHKIN, V. V.

Sistemy zapolneniia benzobakov vykhlopnymi gazami. (Tekhnika vozdushnogo flota, 1943, no. 10-11, p. 21-26, illus., diagrs.)
Title tr.: Fuel tank protection by inert gases.

TL504.TL 1943

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.

"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9

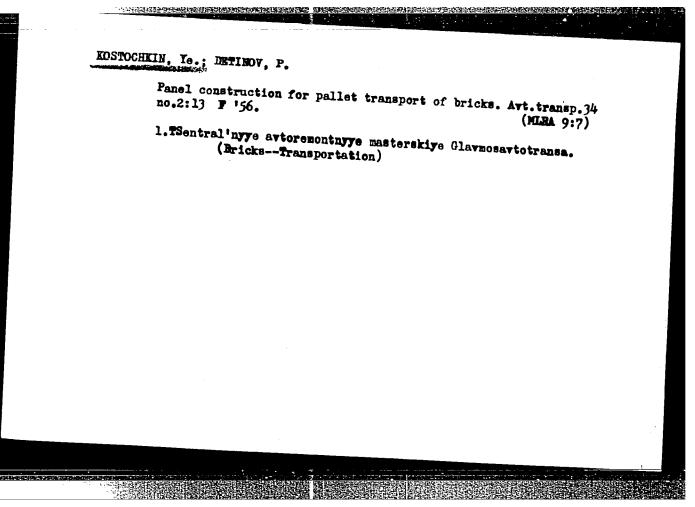
KCS TOCHKIN, V. V.

Drenazhnye klapany sistem vodianogo okhlazhdeniia aviamotorov. Moskva, Oborongiz, 1947.

Title tr.: Bleeder valve in aircraft engine water cooling systems.

NCF

SO: Aeronautical Sciences and Aviation in the Soviet Union, Library of Congress, 1955.



25(6) AUTHORS:

Oding, I. A., Kostochkin, Yu. V.

507/32-25-7-29/50

TITLE

Testing of Turbine Vanes in the Gas Current at Varying Temperatures (Ispytaniye turbinnykh lopatok v gazovom potoke peremenonoy temperatury)

PERIODICAL:

Zavodskaya laboratoriya, 1959, Vol 25, Nr 7, pp 863-865 (USSR)

ABSTRACT:

A special method and arrangement UPT for testing turbine vanes and samples at varying temperatures of the gas current were worked out. The device (Fig 1) is, in principle, a gas turbine where hot gas enters on the one hand and air on the other. Four samples can be tested at the same time; hot gas and air flow around them alternately. The automatic shift from gas to air current is carried out by a servomoter PR-1. Turbine vanes (Fig 3) were tested on a nickel basis EI 765 while the temperature was reduced from 750 to 70° and again increased to 750°. The temperature of the sample was measured by thermocouples. In the course of the test the samples were extended by rotation; the rotor showed a rate of 7500 rpm, and a tensile stress of

Card 1/2

28 kg/mm² was obtained. The testing results obtained (Table) show that the samples showed no surface cracks at 5500 rpm

Testing of Turbine Vanes in the Gas Current at Varying Temperatures

temperature variation periods; durability, however, decreases. There are 4 figures and 1 table.

ASSOCIATION:

Tsentral'nyy nauchno-issledovatel'skiy institut tekhnologii i mashinostroyeniya (Central Scientific Research Institute of Technology and Machine Construction)

Card 2/2

KOSTOCHKIN, Yu. V. Cand Tech Sci, -- "Study of the effect of alternating temperature upon the strength of the metal vanes of gas turbines." Mos, 1960 (All-Union Main Power Administration. All-Union Order of Labor Red Banner Heat Engineering Sci Res Inst im F. E. Dzershinskiy). (KL, 1-61,198)

-199-

18.9550 18.8200 AUTHORS:

TITLE:

\$/180/60/000/01/014/027

B193/**B**135

Kostochkin, Yu.V., and Oding, I.A. (Moscow) Failure of Metals due to Thermal Fatigue

PERIODICAL: Izvestiya Akademii nauk SSSR, Otdeleniye tekhnicheskikh

nauk, Metallurgiya i toplivo, 1960, Nr 1, pp 101-104 (USSR) ABSTRACT: If a metal part of a rest piece is subjected to cyclic

temperature variations, its mechanical strength diminishes owing to the formation of a network of surface cracks. The laboratory investigations of thermal fatigue are, in most cases (Refs 1-3) conducted under rather severe conditions. The test pieces are heated in a furnace or by an electric current and cooled by a stream of cold air or by quenching in water, while the number of reversals often exceeds that likely to occur under actual service conditions; as a result, easily discernible surface cracks are formed which considerably reduce the strength and plasticity of the test pieces.

Card 1/7

temperature variations under the actual service conditions are less drastic, so that in many cases only micro-cracks are formed, which are not easy to detect; more often, the only result of the cyclic temperature variations is

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Failure of Metals due to Thermal Fatigue

broadening of the grain boundaries which can be considered as the first stage of the formation of cracks. Even in these cases, it is still necessary to evaluate the extent of the damage so as to be able to assess the suitability (or otherwise) of the part for further service. The object of the present investigation was to find a convenient method of checking the effect of thermal fatigue on the resistance of metals to deformation; the EI-765 nickel/chromium alloy and the EI-612 austenitic steel were selected as the experimental materials, both these alloys being used in the manufacture of gas turbine blades of Standard, cylindrical, tensile test pieces and impact strength test bars were used in the first series of experiments, which consisted in heating the specimens in a stream of gas at 750 °C and cooling them by a stream of air at 70 °C which corresponded very closely to the thermal conditions under which the turbine blades operate in service. A maximum of 6000 reversals was applied and even then no cracks could be detected in the investigated specimens. The test pieces, subjected to

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Failure of Metals due to Thermal Fatigue

various numbers of reversals, were tested for tensile and impact strength; the results of these tests are given in Tables 1-4. The results of short-time, tensile tests for the EI-765 alloy are given in Table 1 under the following headings: number of the specimen; number of the 750-70-750 °C cycles; tensile test temperature, °C; 0.2% proof stress, oo 2, kg/mm²; U.T.S., og, kg/mm²; elongation, o, %; reduction of area, \(\psi\), %. The results of the impact strength tests for the same alloy are given in Table 2, showing: number of the specimen; number of 750-70-750 °C cycles; impact testing temperature, °C; impact strength, ak, kgm/cm2. The results of the shorttime tensile tests and impact strength tests for steel EI-612 are presented in the same manner in Tables 3 and 4, respectively. Analysis of these tables showed that, taking into account the scatter of the results (characteristic for thermal fatigue tests), the mechanical properties of the specimen were hardly affected by the variation of the number of temperature reversals, thus indicating that the extent of the damage due to thermal

Card 3/7

APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9"

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Failure of Metals due to Thermal Fatigue

fatigue cannot be assessed by the method employed. Consequently, actual turbine blades were used in the next series of experiments; these were also alternately heated and cooled in a stream of hot gas and cold air, after which they were subjected to creep tests in a manner described by the present author in Ref 5. results of the time-to-rupture tests are given in Fig 1, where time-to-rupture (τ , h) for alloy EI-765, tested at 750 °C (continuous curves), and steel EI-612, tested at 650 °C (broken curves) is plotted against the number, n, of temperature reversals; the stress, σ , (kg/mm²) applied during the creep test being given by each curve. It will be seen that with increasing n the creep resistance of the alloys (as indicated by the time-torupture) decreased, the rate of this decrease slowing down with both increasing n and increasing magnitude of the Macro- and micro-analysis of the applied stress, o, Macro- and micro-analysis of fracture revealed that the failure had occurred not A surface crack was instantaneously, but progressively. first formed which then propagated along the grain

Card

68690 \$/180/60/000/01/014/027 E193/E135

Failure of Metals due to Thermal Fatigue

boundaries in the direction perpendicular to the axis of the blade (and to the applied stress), until the load bearing cross section was reduced to about 50% of the original area, at which moment the specimen broke, the fracture taking place by intra-crystalline shear along a plane inclined at 450 to the horizontal. (In the case of blades that had not been subjected to preliminary, cyclic temperature variations, fracture under these conditions occurred instantaneously and was of the inter-crystalline nature). The creep curves (elongation e, %, versus time 7, h) obtained in the course of the nex, series of experiments are given in Figs 2 and 3. Fig 2 shows the results for the EI-765 alloy, tested at 750 °C under 0 = 22.3 kg/mm², the other conditions (for curves 1-5) being: 1 - blade E16; 7 (time-to-rupture) = 276 h; (at the moment of fracture) = 6.45%; number of preliminary temperature reversals, n = 6200; 2 - blade E17; 7 = 306 h; \(\varepsilon\) = 4.2%; n = 3580; 4 - blade E1; 7 = 912 h; \(\varepsilon\) = 3.95%; n = 2315; 5 - blade E21; 7 = 1520 h;

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Failure of Metals due to Thermal Fatigue

 $\varepsilon = 3\%$; n = 0. The results of creep tests for steel BI-612, tested at 650 °C under $\sigma = 22.3 \text{ kg/mm}^2$, are presented in the same manner in Fig 3, curves 1-5 corresponding to: 1 - blade I5; $\tau = 203 \text{ h}$; $\epsilon = 2.5\%$; corresponding to: 1 - Diage 17; $\tau = 209 \text{ h}$; $\epsilon = 1.94\%$; $\tau = 5722$; 3 - blade II; $\tau = 856 \text{ h}$; $\epsilon = 1.44\%$; $\tau = 11420$; τ The creep curves, reproduced in Figs 2 and 3, show that the larger the number of temperature reversals, the faster was the rate of deformation in creep and the higher the total elongation of the specimen. This was obviously due to the fact that fracture of blades, subjected to preliminary cyclic temperature reversals, took place across a smaller (on the account of cracks) effective cross-section area and, therefore, under a higher effective stress. It was concluded that the harmful effect of thermal fatigue is best assessed by conducting creep tests on specimens subjected to cyclic temperature variations, closely resembling those that occur under the actual operating conditions.

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APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9"

c35%

S/180/60/000/01/014/027 E193/E135

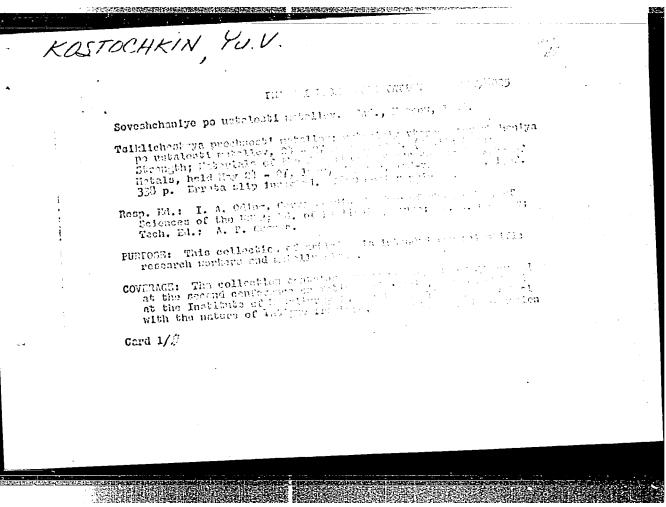
Failure of Metals due to Thermal Fatigue

There are 3 figures, 4 tables and 5 Soviet references.

SUBMITTED: October 6, 1959

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"APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825220012-9



Cyclic Metal Strength (Cont.)

SOV/6025

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and growth of fatigue cracks, the role of plastic deformation in fatigue fracture, an accelerated method of determining fatigue strength, the plotting of fatigue diagrams, and various fatigue test methods. New data are presented on the sensitivity of high-strength steel to stress concentration, the effect of stress concentration on the criterion of fatigue failure, the effect of the size factor on the strength of metal under cyclic loads, and results of endurance tests of various machine parts. Problems connected with cyclic metal toughness, internal friction, and the effect of corrosion media and temperature on the fatigue strength of metals are also discussed. No personalities are mentioned. Each article is accompanied by references, mostly Soviet.

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NATURE OF PATIGUE FRACTURE

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	. 2
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\$/129/62/000/007/005/008

AUTHOR:

Kostochkin, Yu.V., Candidate of Technical Sciences

TITLE:

Influence of thermal fatigue on the failing of

turbine blades

PERIODICAL: Metallovedeniye i termicheskaya obrabotka metallov,

no.7, 1962, 45-48

Using a special test rig, standard cylindrical specimens, TEXT: impact strength test specimens and models of turbine blades made of the austenitic steel XH35BT (KhN35VT) and of the Cr-Ni alloy XH 70 BM OT (KhN70 VMYuT) were heated in a gas stream of 750°C, 180 m/sec velocity (heat transfer coefficient 600 kcal/m².hr.deg) and cooled with 70°C air. The test conditions were as near as possible to real conditions of operation of turbine blades. The specimens and the turbine blade models were tested for up to 6000 thermal cycles, and subsequent macro- and micro-analyses did not reveal any cracks. The mechanical properties of the materials at room and elevated temperatures also remained unchanged after this thermal cycling; only the ductility changed somewhat. After differing numbers of thermal cycles the turbine blades were Card 1/8 2

5/129/62/000/007/005/008 E073/E435

Influence of thermal fatigue on ...

tested for creep strength until failure, at 750°C (KhN70VMYuT) and 650°C (KhN35VT), in an experimental gas turbine as well as in a test rig. The results are plotted in Fig.1, which shows that each number of thermal cycles corresponds to a definite time to failure. Macro- and microstructural analyses of the fractures revealed that, with and without thermal cycling, the failure occurred along the plane of maximum tangential stresses, along the body of the grain. The results of short-duration tensile tests are not affected by the thermal cycling. The lowering of the creep strength is attributed to the fact that the intergranular microcracks accumulate and develop into cracks along the grain boundaries, reducing the effective cross-section of the however, those mechanical properties which are determined by intracrystalline fracture are not affected. There are 2 figures.

ASSOCIATION: TSNIITMASh

Card 2/10

KCSTOCHKIN, Yu.V., kand.tekhn.nauk

Effect of thermal fatigue on the failure of turbine blades. Metalloved. i term. obr. met. no.7:45-48 Jl '62. (MIRA 15:6)

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8/137/000/062/011/027/045 A006/A101

26.2122

AUTHORS:

Oding, I. A., Kostochkin, Yu. V.

TITLE:

The effect of temperature changes upon the metal strength of

gas turbine blades

PERIODICAL:

Referativnyy zhurnal, Metallurgiya, no. 11, 1962, 50, abstract

111316 (In collection: "Tsiklich. prochnost' metallov", Moscow,

AN SSSR, 1962, 267 - 275)

TEXT: The authors investigated the effect of variable temperatures upon crack formation and changes in the size of 3N 765 (EI765) and 3N 607 (EI607) alloy, and 3N 612 (EI612) steel specimens, used for gas turbine blades. Prismatic specimens of 23 x 16 mm section, were heated in a furnace to temperatures below phase transformation (EI675 and EI607 to 800°C, EI612 to 700°C). They were then cooled in an oil bath at 10° C. The crack resistance of the materials was evaluated from the number of thermal cycles until the appearance of the first cracks. It was found that after a sufficient number of cycles thermal fatigue cracks in the aformentioned materials developed on the plane faces of the specimen; this is connected with the nature of temperature and stress distribution

Card 1/2

S/137/000/062/011/027/045 A006/A101

The effect of temperature changes upon ...

in the specimen. For heat-resistant materials with low heat-conductivity and maximum temperature gradient, highest stresses arose on the face surface and attained 18 kg/mm² 4 sec after the beginning of cooling. The determination of mechanical properties was performed on a MM -4 P (IM-4R) machine and on a ram at 20 and 650°C. Highest mechanical properties are shown by steel EI765; it proved therefore most resistant with regard to heat-alternation. Hardness of steels EI607 and EI612 decreased after 170 - 190 cycles by a factor of almost 1.5, whereas hardness of EI765 steel did not change after 552 cycles. It is shown that the difference in the appearance of cracks in carbon steel and heat resistant steels is connected with the nature of ductility changes depending on temperature. It is pointed out that the damage degree of the metal of gas turbine blades subjected to the effect of thermal fatigue, should be evaluated from long-lasting endurance tests. It was established that the nature of failures in long-lasting durability tests of the blades subjected to the effect of heat alternations, is of an intergranular nature.

Z. Fridman

[Abstracter's note: Complete translation]

Card 2/2

S/124/63/000/001/075/080 D234/D308

AUTHORS:

Oding, I.A. and Kostochkin, Yu.V.

TITLE:

Effect of variable temperature on the strength of

the metal of gas turbine blades

PERIODICAL:

Referativnyy zhurnal, Mekhanika, no. 1, 1963, 77, abstract 1V599 (In collection: Tsiklich. prochnost'

metallov. M., AN SSSR, 1962, 257-275)

TEXT: The authors study the effect of thermal fatigue on the character of crack formation in prismatic specimens of alloys ЭИ-765 (EI-765) EI-607 and of EI-612 steel, as well as on the dura-

ble strength characteristics.

Abstracter's note: Complete translation

Card 1/1

CIA-RDP86-00513R000825220012-9" **APPROVED FOR RELEASE: 06/14/2000**

\$/285/63/000/001/002/002 A052/A126

AUTHORS:

Oding, I. A., Kostochkin, Yu. V.

TITLE:

Effect of variable temperature on the strength of gas turbine blade

metal

PERIODICAL: Referativnyy zhurnal, otdel'nyy vypusk, 49. Turbostroyeniye, no. 1, 1963, 19, abstract 1.49.115 (In collection: Tsiklich, prochnost metallov. M., AN SSSR, 1962, 267 - 275)

TEXT: The effect of a variable temperature on the character of crack formation, change of dimensions and mechanical properties of materials is investigated. The following materials were tested: 3N-765 (EI-765) (chromium-nickel alloy), 3M -612 (EI-612) (austenitic steel) and 3M -607 (EI-607) (nickelbase alloy). Prismatic 23 x 16 mm samples were heated to temperatures below those of phase conversions (700 - 800°C) and cooled in an oil bath at 40°C. The tests have shown that after a sufficient number of heat changes thermal fatigue cracks appear in tested materials on flat sides of prismatic samples and not on edges as is the case in carbon steel samples. A detailed analysis of this phenomenon is made with an Card 1/3

S/285/63/000/001/002/002 A052/A126

Effect of variable temperature on...

allowance for different mechanical properties, heat conductivity coefficients and Bio criteria under different test conditions. The conclusion is drawn that the difference in the process of crack formation in carbon and heat-resisting steels is connected with temperature fields in the samples and the character of ductility change depending on the temperature. Cracks appear on the grain boundaries, and their appearance is preceded by an expansion of boundaries which increases with the growing number of heat changes. The investigation of the process of increase of sample dimensions was carried out on EI-612 steel heated to 800°C. After 100 cycles the length of a sample increases by 2%. The increase of length is conditioned by temperature stresses exceeding the limit of elasticity of the material. A detailed description is given of the process of residual strain expansion and of increase of absolute sample dimensions at a constant level of heat changes. An investigation of metal resistance to thermal fatigue was carried out on an installation simulating near-to-working conditions for gas turbine blade materials. Material samples and blade models were heated to 750°C and cooled in a gas flow. In the process of heating the most abrupt temperature change is 530°C and it takes place during the first seconds. The gas and blade metal temperatures were recorded by an oscillograph according to 8 thermocouples incorporated in the blades. Temperature field measurements of blade models at heating and cooling are given and Card 2/3.

s/830/62/000/001/005/012 E193/E383

AUTHORS:

Kaplan, G.Yc., Moiseyev, Ye.D., Dmitriyeva, L.P.

TITLE:

Separation of zirconium and hafnium by solvent

SOURCE:

Ekstraktsiya; teoriya, primeneniye, apparatura. by A. P. Zefirov and M. N. Senyavin. Moscow. Gosatomizdat, 1962. 117 - 123 Ed.

TEXT: The first part of the paper is concerned with the application of tributyl phosphate as a reagent in a solventextraction process used for selective recovery of hafnium and. zirconium from Zr-rich solutions. Various standard methods of decomposition of zirconia concentrates are reviewed and the most convenient ways of converting the composition products to solutions suitable for processing by solvent extraction are discussed. It is shown that the main difficulties associated with the application of tributyl phosphate for separating Hf and Zr are associated with difficulties encountered in the preparation of nitric-acid solutions free from silicon, fluorine and sulphate

Separation of

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The only original experimental evidence quoted in this connection relates to the effect of fluorine on the extraction of Zr from nitric-acid solutions: it is shown that in the case of solutions obtained from fluorine compounds of Zr and Hf, solvent extraction can be effectively used only if the fluorine/zirconium molar content ratio does not exceed unity. The use of organic agents such as diethyl ester, methyl isobutyl ketone, etc. for separating Hf from Cr in H₂SO₄ solutions is briefly discussed; the main shortcoming of this method is the difficulty in regenerating ammonia thiocyanate. Since liquid ionic-exchange reagents can also be used for extraction from H2SO4 solutions and since data on the separation of Hf and Zr by this method are scarce, a series of experiments were conducted in which 5% xylol solutions of several cationic reagents were used to extract Hf and Zr from a 2N H₂SO₄ solution with 20 g/1. Zr. The results are reproduced in Table 1. The disadvantage of this method is a tendency to the formation of emulsions and insoluble residues. The last paragraphs of the paper describe experiments in which the possibility of using amines for extraction of Zr from ${\rm H_2SO_4}$

Separation of ...

S/830/62/000/001/005/012 E193/E383

solutions was studied. A xylol solution of tri-octylamine was used for this purpose. Recovery of Zr in the organic phase depended on both acidity of the solution and concentration of the amine in its solvent. When a 20% solution of amine was used in a 2N H₂SO₄ solution, the distribution coefficient in respect of Zr was 1.4, the corresponding figure for an 0.7N solution being 5.5. The distribution coefficients attained with a 10% solution of amine, used for treating 0.7N, 2N and 4N H₂SO₄ solutions were, respectively, 0.67, 0.42 and 0.31. It is concluded that application of amines and phosphoric acid esters offer a possible method of separating Hf and Zr in H₂SO₄ solutions. There are 4 figures and 1 table.

Card 3/4

Separation of

S/830/62/000/001/005/012 E193/E383

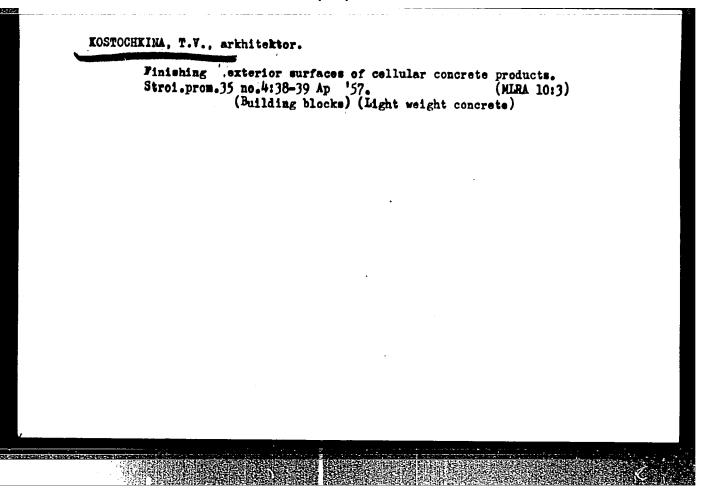
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Table 1:

Extraction characteristics of some organic phosphorus-base acids with cation-exchange properties

Extracting agent	DHf	$^{\mathtt{D}}\mathtt{Zr}$
(c ₆ H ₁₃ 0) ₂ POOH	0.22	0.02
(C ₇ H ₁₅ 0) ₂ POOH	0.35	0.03
(с ₈ н ₁₇ о) ₂ роон	0.21	0.03
	•	

Card 4/4



KRESTOV, M.A.; DOBRYAKOVA, L.I.; KOSHKIN, V.G.; YEVDOKIMOV, A.A.;
IVANOVA, V.V.; KHMELEVSKIY, V.A.; KOSTOCHKINA, T.V.; PFLAUMER,
O.E., kend.tekhn.nauk, nauchnyy red.; SKVORTSOVA, I.P., red.
izd-va; TEMKINA, Ye.L., tekhn.red.

[Finishing large panels and blocks using colored concretes]
Otdelka krupnykh panelei i blokov a primeneniem tavetnykh betonov. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.
materialam, 1959. 87 p. (MIRA 13:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut novykh stroitel'nykh materialov. 2. Institut novykh stroitel'nykh materialov
(for Krestov, Dobryskova, Koshkin, Yevdokimov, Ivanova, Khmelevskiy).
3. Institut betona i zhelezobetona (for Kostochkina).
(Building blocks)

KOSTOCHKINA, T.V. arkhitektor

Factory-finished exterior surfaces of autoclave-hardened porous concrete products. Trudy MIIZHB no.8:181-193 *59.

(MIRA 13:4)

1. Nauchno-issledovatel'skiy institut betona i zhelezobetona Akademii stroitel'stva i arkhitektury SSSR.

(Precast concrete)

MAKARICHEV, V.V., kand.tekhn.nauk; KOSTOCHKINA, T.V., nauchnyy sotrudnik; IFTINKA, G.A., red.izd-va; SHENSTHEVA, N.V., tekhn.red.

[Instructions for finishing the exterior surfaces of porous concrete articles with cement paints] Ukazaniia po otdelke naruzhnykh poverkhnostei isdelii is ischeistykh betonov tsementnymi kraskami. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam, 1960. 24 p. (MIRA 14:4)

1. Akademiya stroitel'stva i arkhitektury SSSR. Institut betona i zhelezobetona, Perovo.

(Concrete coating)

KOSTOCHKINA, T.V., arkhitektor; ROZENFEL'D, L.M., kand. khimicheskikh

Atmospheric resistance of cement coverings on cellular concrete products. Trudy NIIZHB no.32:278-294 163. (MIRA 17:1)

KOSTOGONOV, A.

112-2-4520

TRANSLATION FROM: Referativnyy zhurnal, Elektrotekhnika, 1957,

Nr 2, p. 293 (USSR)

AUTHOR:

Kostogarov, A.

TITLE:

Including a Fuse in the Amplifier Anode Circuit (Vklyucheniye predokhranitelya v anodnuyu tsep'usilitelya)

PERIODICAL: Kinomekhanik, 1956, Nr 3, pp. 40-41

ABSTRACT: Twenty per cent of the cases of TIY-156 motion picture sound track amplifier breakdowns are due to breakdown of electrolytic capacitors of the rectifier filter. This puts the kenotron out of order and sometimes the power transformer as well. To prevent breakdown of these elements it is proposed to introduce an MH-15 neon lamp into the amplifier anode circuit as a protection. The voltage drop from the neon lamp (3 to 4 v) has practically no effect on amplifier operation. At the same time, this lamp serves as an indicator of proper rectifier operation.

S.D.D.

Card 1/1

KOSTOGAFOV, M. V.

Rabota gidravlicheskikh pressov s avtomaticheskim reguliatorom davlenija vody v seti. (Vestn. Mash., 1948, no. 9, p. 46-48)

Performance of hydraulic presses with automatic pressure control of water in network.

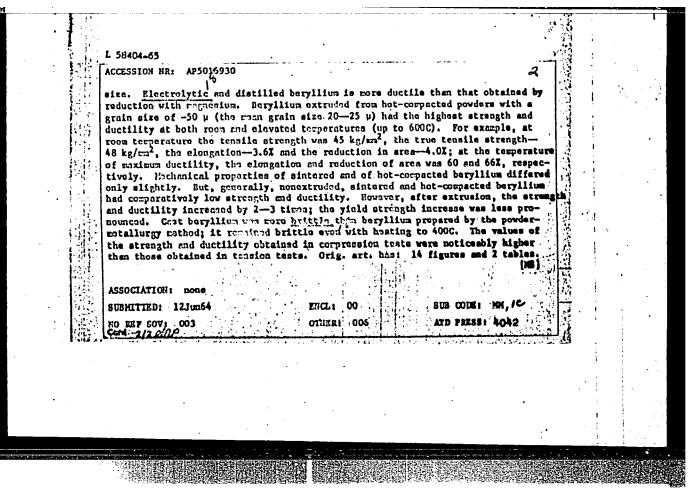
DLC: TN4.V4

SO: Manufacturing and Mechanical Engineering in the Soviet Union, Library of Congress, 1953

DAVIDENKOV, N.N. [deceased]; SIDOROV B.A.; SHESTOPALOV, L.M.; MIRONOV, N.F.; BOGORAD, N.M.; IZHVANOV, L.A., KOSTOGAROV, S.B.

Mechanical properties of beryllium. Atom. energ. 18 no.6:608-616 Je '65.

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		AUTHOR: [Farter ov, H. H.] (Decessed); Siderny, B. A.; Sheetopalov, L. M.; Hironov, H. F.; Decessed, H. H.; Izhvenov, L. A.; Kostogarov, S. B.			
	\ :	KI		1	
•		TITLE: Investigation of the machanical properties of beryllium	:	ţ	
	i Jij	SOURCE: Atomaya energiya, v. 18, no. 6, 1965, 608-616	•	1	
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		TOPIC TAGS: beryllium, sintered beryllium, cast beryllium, extruded beryllium, beryllium sechanical property	i.	. !	
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	r e	ABSTRACT: Beryllium powders, 99.02-99.59% pure with a particle size of -500 or -50 py obtained by reduction of beryllium fluoride with magnesium, vacuum distille-			
		tion, or electrolysis of berylling chloride, were consolidated by cold cornection	į		
•		and vacuum sintering, hot corpacting in air or in a vacuum, or by selting and centrifugal costing. A part of the specimens was additionally extruded at 450—500C	į		
		: With a reduction of 75%. The density of metal varied from 1.75-1.82 m/cm2 for 1.15%	: .		
		cold-compacted and sintered specimens to almost the theoretical for hot-compacted or extruded specimens. It was found that at 200 the elongation and reduction of	1	:	
		area did not exceed 5%. The ductility of sintered beryllium increased sharply with increasing temperature to a maximum at 400-500C, and then decreased. The strength	:		
	l in	and ductility or not-compacted beryllium powders increased with decreasing particle			
	i -	Cord 1/2	: .		
		Manager and American American American American Am	į.		
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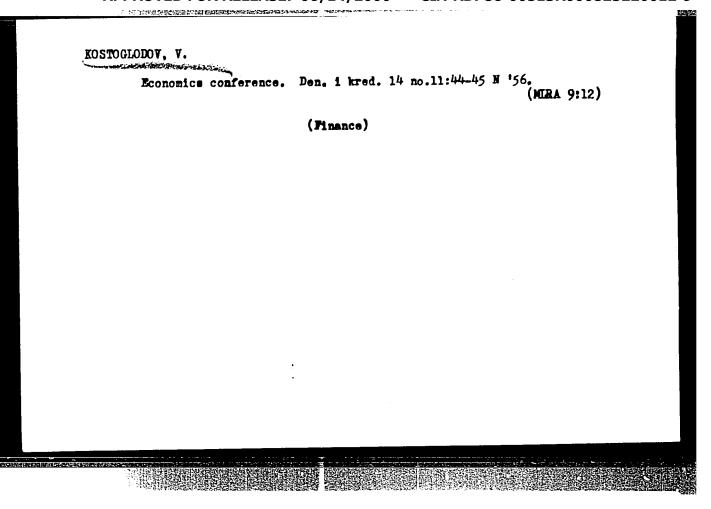
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